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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/651,110	08/29/2003	Shen-En Qian	42137-0016	7689
41018 CASSAN MA	7590 01/12/2007 CLEAN		EXAMINER	
307 GILMOUT	R STREET		GE, YUZHEN ART UNIT PAPER NUMBER 2624	
OTTAWA, ON CANADA	N K2P 0P7	•		
CAIMIDA				
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
31.1	DAVS	01/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/651,110	QIAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Yuzhen Ge	2624				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	. ely filed he mailing date of this communication (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
•	action is non-finál.					
3) Since this application is in condition for allowar	•	secution as to the merits is				
closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-28 are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.	• "				
10) The drawing(s) filed on is/are: a) acce		xaminer.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d	I).			
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau		·.				
* See the attached detailed Office action for a list	of the certified copies not receive	a.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

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Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 6-23, drawn to a compression system based on vector quantization, classified in class 382, subclass 253.
- II. Claim 1-5 and 24-28, drawn to an image learning system and method, classified in class 382, subclass 159.
- 2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the particulars of the broadest subcombination claims, Claims, 1, 5, 24 and 28 are not recited in the broadest combination claims, Claims 6 and 14. The subcombination has separate utility such as feature extraction for pattern recognition.
- 3. If group I is elected, then the applicant is required to elect from following distinct species:
- I.1 Claims 6-13, drawn to a vector quantization system and method, classified in class 382, subclass 253
- I.2 Claims 14-23, drawn to parallel coding architecture, classified in class 382, subclass 234.
- 4. Inventions I.2 and I.1 are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require

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the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the particulars of the broadest subcombination claims, Claim 6 are not recited in the broadest combination claims, Claim 14. The subcombination has separate utility such as learning and training code vectors.

5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuzhen Ge whose telephone number is 571-272 7636. The examiner can normally be reached on 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yuzhen Ge Examiner Art Unit 2624

SUPPRISORY PATENT EXAMINER